

SABIC Innovative Plastics LNP KONDUIT OX11315 PPS (Asia Pacific)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS)

Material Notes:

Thermally conductive electrically insulative mineral filled PPS FR compound.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-KONDUIT-OX11315-PPS-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Density	1.76 g/cc	0.0636 lb/in ³	ASTM D792
Water Absorption	<= 0.010 % @Time 86400 sec	<= 0.010 % @Time 24.0 hour	SABIC Method
Moisture Absorption	<= 0.0100 %	<= 0.0100 %	23°C / 50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.00020 cm/cm @Time 86400 sec	0.00020 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.00030 cm/cm @Time 86400 sec	0.00030 in/in @Time 24.0 hour	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	57.0 MPa	8270 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	0.40 %	0.40 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	16.4 GPa	2380 ksi	5 mm/min; ASTM D638
Flexural Strength	69.0 MPa	10000 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	16.2 GPa	2350 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.150 J/cm	0.281 ft-lb/in	ASTM D256
Izod Impact, Unnotched	0.600 J/cm	1.12 ft-lb/in	ASTM D4812

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	8.30 µm/m-°C @Temperature 40.0 - 120 °C	4.61 µin/in-°F @Temperature 104 - 248 °F	ASTM E 831
CTE, linear, Transverse to Flow	22.4 µm/m-°C @Temperature 40.0 -	12.4 µin/in-°F @Temperature 104 -	ASTM E 831

Thermal Properties	120 °C Metric	248 °F English	Comments
Specific Heat Capacity	1.26 J/g-°C	0.301 BTU/lb-°F	ASTM C351
Thermal Conductivity	3.50 W/m-K	24.3 BTU-in/hr-ft ² -°F	through-plane, 10*10*3mm sample; ASTM E 1461-07
	15.0 W/m-K	104 BTU-in/hr-ft ² -°F	in-plane, ø25*0.4mm disc; ASTM E 1461-07
Deflection Temperature at 1.8 MPa (264 psi)	228 °C	442 °F	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	130 °C	266 °F	UL 746B
UL RTI, Mechanical with Impact	130 °C	266 °F	UL 746B
UL RTI, Mechanical without Impact	130 °C	266 °F	UL 746B
Flammability, UL94	V-0	V-0	UL 94
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	5VA	5VA	UL 94
	@Thickness 2.50 mm	@Thickness 0.0984 in	

Electrical Properties	Metric	English	Comments
Surface Resistance	2.40e+15 ohm	2.40e+15 ohm	ASTM D257
Dielectric Strength	>= 4.00 kV/mm	>= 102 kV/in	in oil; ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Comparative Tracking Index	325 V	325 V	IEC 60112

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